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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/665,900
Filing Date	September 19, 2003
First Named Inventor	Jean M.J. Frechet
Art Unit	1743
Examiner Name	
Attorney Docket Number	IB-1829

Total Number of Pages in This Submission: 7

ENCLOSURES *(Check all that apply)*

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [X] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Response to Missing Parts/ Incomplete Application
  - [ ] Response to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
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Remarks

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Firm or Individual name	Michelle S Chew; Lawrence Berkeley National Laboratory
Signature	Michelle S Chew
Date	4-15-04

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On April 15, 2004

LAWRENCE BERKELEY NATIONAL LABORATORY

By: Michelle S Chew
Michelle S. Chew

PATENT
Attorney Docket No.: IB-1829

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Jean M.J. Fréchet, et al.

Application No.: 10/665,900

Filed: September 19, 2003

For: PHOTOINITIATED GRAFTING OF POROUS POLYMER MONOLITHS AND THERMOPLASTIC POLYMERS FOR MICROFLUIDIC DEVICES

Examiner: Not yet assigned

Art Unit: 1743

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98

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Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the non-U.S. patent references are enclosed. In conformity with proposed U.S. Patent and Trademark Office rules set forth in OG Notice: 05 August 2003, Applicants have not included copies of each cited U.S. patent and each U.S. patent application publication because Applicant's U.S. national patent application was filed after June 30, 2003. The requirement to submit a copy of each cited U.S. patent and each U.S. patent application publication, as set forth in current 37 CFR 1.98(a)(2)(i), is waived per the cited OG Notice.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 120690. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Michelle S. Chew
Reg. No. 50,456

LAWRENCE BERKELEY NATIONAL LABORATORY
One Cyclotron Road, MS 90B-0104
Berkeley, California 94720
Tel: 510-486-7058
Fax: 510-486-7896

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Sheet 1 of 4

Complete if Known	
Application Number	10/665,900
Filing Date	September 19, 2003
First Named Inventor	Fréchet, Jean M.J., et. al.
Art Unit	1743
Examiner Name	Not yet assigned
Attorney Docket Number	IB-1829

U.S. PATENT DOCUMENTS

Examiner	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5316,680	05-31-1994	Fréchet, et al.	
	AB	US-5,334,310	08-02-1994	Fréchet, et al.	
	AC	US-5,431,807	07-11-1995	Fréchet, et al.	
	AD	US-5,453,185	09-26-1995	Fréchet, et al.	
	AE	US-5,522,994	06-24-1996	Fréchet,et al.	
	AF	US-5,547,575	08-20-1996	Demmer, et al.	
	AG	US-5,633,290	01-14-1997	Fréchet, et al.	
	AH	US-5,728,457	03-17-1998	Fréchet, et al.	
	AI	US-5,744,250	04-28-1998	Lee, et al.	
	AJ	US-5,929,214	07-27-1999	Fréchet, et al.	
	AK	US-6,013,855	01-11-2000	McPherson, et al.	
	AL	US-6,306,273	10-23-2001	Wainwright, et al.	
	AM	US-6,358,557	03-19-2002	Wang, et al.	
	AN	US-6,361,958	05-07-2002	Shieh, et al.	
	AO	US-6,384,100	05-07-2002	Choi, Wai Ming	
	AP	US-5,786,428	07-28-1998	Arnold, et al.	
	CI	US-20010007701	07-12-2001	Karger, et al.	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	AQ	ALLMER K, Hult A, Ranby B., Surface modification of polymers. II: Grafting with glycidyl acrylate and the reactions of the grafted surface with amines. *J. Polym Sci Polym Chem* 1989; 27:1641-52.	
	AR	ALLMER K, Hult A, Ranby B., Surface modification of polymers. III: Grafting of Stabilizers onto Polymer Films. *J. Polym Sci Polym Chem* 1989; 27:3405-13.	
	AS	ANG CH, Garnett JL, Levot RG, Long Ma. The effect of additives for accelerating radiation grafting. The use of the technique for modification of polymers especially polyolefins. In: Carraher Jr CE, Moore JA, editors. *Modification of polymers*. New York: Plenum Press, 1983. p. 33-53.	
	AT	AUROUX P.A., Iossifidis D., Reyes D.R., Manz A., "Micro Total Analysis Systems. 2. Analytical Standard Operations and Applications," *Anal. Chem.* 2002, *74*, 2637.	
	AU	BARKER S. L. R., Tarlov MJ, Canavan H, Hickman JJ, and Locascio LE, "Plastic Microfluidic Devices Modified with Polyelectrolyte Multilayers", *Anal. Chem.*; 2000; *72*(20) pp 4899 – 4903.	

Examiner Signature		Date Considered	

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Sheet 2 of 4

Complete if Known	
Application Number	10/665,900
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	AV	BERMAN, et al., "Total Alignment of Calcite at Acidic Polydiacetylene Films: Cooperativity at the Organic-Inorganic Interface," *Science*, Volume 269, pp. 515-518, (July 28, 1995)	
	AW	CHAN C.M., Ko T.M., Hiraoka H., "Polymer Surface modification by plasmas and photons," *Surf. Sci. Rep.* 1996, 24, 3.	
	AX	CHEN, W. And McCarthy, TJ, "Layer-by-Layer Deposition: A Tool for Polymer Surface Modification," *Macromolecules* 1997, 30, 78-86, January 13,1997.	
	AY	CHIARI M, Cretich M, Stastna M, Radko SP, Chrambach A, "Rapid capillary coating by epoxy-poly-(dimethylacrylamide): Performance in capillary zone electrophoresis of protein and polystyrene carboxylate," *Electrophoresis*. 2001;22(4):656-9	
	AZ	ECKERT AW, Grobe D, Rothe U., Surface-modification of polystyrene-microtitre plates via grafting of glycidylmethacrylate and coating of poly-glycidylmethacrylate, *Biomaterials*. 2000 Mar;21(5):441-7.	
	BA	HENRY A.C., Tutt T.J., Galloway M., Davidson Y.Y., McWhorter C.S., Soper S.A., McCarley R.L., "Surface Modification of Poly(methyl methacrylate) Used in the Fabrication of Microanalytical Devices," *Anal. Chem.* Nov 1, 2000, 72, 5331.	
	BB	HU, S. et al., "Surface Modification of Poly(dimethylsiloxane) Microfluidic Devices by Ultraviolet Polymer Grafting," Anal. Chem., 74, 4117-4123, June 6, 2002.	
	BC	KAMATH KR, Park K., "Surface modification of polymeric biomaterials by albumin grafting using h-irradiation," *J Appl Biomater*. 1994 Summer;5(2):163-73.	
	BD	KATO, K., Uchida, E., Kang, E. T., Uyama, Y., & Ikada, Y. "Polymer surface with graft chains," *Progress in Polymer Science*, 28(2): 209-259, 2003	
	BE	LISTON E., Martinu L., Wertheimer M., "Plasma Surface Modification of polymers for improved adhesion: a critical review," *J. Adhes. Sci. Technol.* 1993, 7, 1091.	
	BF	MA Z, Gao C, Shen J, "Surface modification of poly-L-lactic acid (PLLA) membrane by grafting acrylamide: an effective way to improve cytocompatibility for chondrocytes," *J Biomater Sci Polym Ed.* 2003;14(1):13-25.	
	BG	MEYER, U., Svec, F., and Frechet, JMJ, "Use of Stable Free Radicals for the Sequential Preparation and Surface Grafting of Functionalized Macroporous Monoliths," *Macromolecules* 2000, 33, 7769-7775, Sept 28, 2000.	
	BH	NAKAYAMA Y, Matsuda T, Irie M., "A novel surface photo-graft polymerization method for fabricated devices," *ASAIO J.* 1993 Jul-Sep;39(3):M542-4.	
	BI	OSTER G., Shibata O., "Graft Copolymer of Polyacrylamide and Natural Rubber Produced by Means of Ultraviolet Light," *J. Polym. Sci.* 1957, 26, 233-234.	

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Sheet 3 of 4

Complete if Known	
Application Number	10/665,900
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First Named Inventor	Fréchet, Jean M.J., et. al.
Art Unit	1743
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	BJ	PETERS, EC, Svec, F, and Frechet JMJ, "Control of Porous Properties and Surface Chemistry in "Molded" Porous Polymer Monoliths Prepared by Polymerization in the Presence of TEMPO," *Macromolecules* 1999, 32, 6377-6379, Aug 19, 1999.	
	BK	PETERSON, H., et al., "Poly(ethylenimine-*co*-L-lactamide-*co*-succinamide): A Biodegradable Polyethylenimine Derivative with an Advantageous pH-Dependent Hydrolytic Degradation for Gene Delivery," *Bioconjugate Chem.* 2002, 13, 812-821, 06/01/2002.	
	BL	QIN D., Xia Y.N., Rogers J.A., Jackman R.J., Zhao X.M., Whitesides G.M., "Microfabrication, Microstructures and Microsystems," *Top. Curr. Chem.* 1998, *194*, 1-20.	
	BM	RÅNBY B., "Surface Modification of Polymers by Photoinitiated Graft Polymerization," *Makromol. Chem. , Macromol. Symp.* 1992,63, 55.	
	BN	RÅNBY B., Yang W.T., Tretinnikov O., "Surface photografting of polymer fibers, films and sheets," *Nucl. Instrum. Methods Phys. Res., Sect. B* 1999,151, 301-305.	
	BO	REYES D.R., Iossifidis D., Auroux P.A., Manz A., "Micro Total Analysis Systems. 1. Introduction, Theory, and Technology," *Anal. Chem.* 2002, *74*, 2623.	
	BP	ROHR T., Yu C., Davey M.H., Svec F., Fréchet J.M.J., "Porous polymer monomliths: Simple and efficient mixers prepared by direct polymerization in the channels of microfluidic chips," *Electrophoresis* 2001, *22*, 3959.	
	BQ	SHIN DS, Lee KN, Jang KH, Kim JK, Chung WJ, Kim YK and Lee YS, "Protein patterning by maskless photolithography on hydrophilic polymer-grafted surface," *Biosensors and Bioelectronics*, Volume 19, Issue 5 , 30 December 2003, Pages 485-494	
	BS	SCHWEITZ, L, Andersson, L.I., and Nilsson, S., "Rapid electrochromatographic enantiomer separations on short molecularly imprinted polymer monoliths," *Analytica Chimica Acta* 435 (2001) 43-47.	
	BT	STACHOWIAK TB, Rohr T, Hilder EF, Peterson DS, Yi M, Svec F, Frechet JM, "Fabrication of porous polymer monoliths covalently attached to the walls of channels in plastic microdevices," *Electrophoresis*. 2003 Nov;24(21):3689-93.	
	BU	SVEC, F.; Fréchet, J. M. J., "Continuous Rods of Macroporous Polymer as High Performance Liquid Chromatography Separation Media," *Anal. Chem.* 1992, *54*, 820.	
	BV	SVEC, F.; Fréchet, J. M. J., "New Designs of Macroporous Polymers and Supports: From Separation to Biocatalysis," *Science* 1996, *273*, 205	
	BW	SVEC F., Yu C., Rohr T., Fréchet J.M.J., in *Micro Total Analysis Systems 2001*, Ramsey J.M., van den Berg A. (Eds.), Kluwer Acad. Publ., Dordrecht, 2001, p. 643-645.	
	BX	SVEC F., Fréchet J.M.J., Hilder E.F., Peterson D.S., Rohr T., in *Micro Total Analysis Systems 2002*, Baba Y., van den Berg A. (Eds.), Kluwer Academic Publishers, Dordrecht, 2002, p. 332-334.	

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Sheet 4 of 4

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	BY	THROCKMORTON DJ, Shepodd TJ, and Singh AK, "Electrochromatography in Microchips: Reversed-Phase Separation of Peptides and Amino Acids Using Photopatterned Rigid Polymer Monoliths," *Anal. Chem.*; Feb 15, 2002; *74*(4) pp 784 – 789.	
	BZ	UYAMA, Y., Kato K., Ikada Y., "Surface Modification of Polymers by Grafting," *Adv. Polym. Sci.* 1998, *137*, 1.	
	CA	VIKLUND, C.; Ponten, E.; Glad, B.; Irgum, K.; Horstedt, P.; Svec, F.; ""Molded" Macroporous Poly(glycidyl methacrylate-*co*-trimethylolpropane trimethacrylate) Materials with Fine Controlled Porous Properties: Preparation of Monoliths Using Photoinitiated Polymerization," *Chem. Mater.*; (Article); Feb 1997; *9*(2); 463-471.	
	CB	VIKLUND, C.; Svec F, Fréchet J. M. J., and Irgum K, "Fast Ion-Exchange HPLC of Proteins Using Porous Poly(glycidyl methacrylate-*co*-ethylene dimethacrylate) Monoliths Grafted with Poly(2-acrylamido-2-methyl-1-propanesulfonic acid)," *Biotechnol. Prog.*; 1997; *13*(5) pp 597 – 600.	
	CC	VIKLUND, C and Irgum, K., "Synthesis of Porous Zwitterionic Sulfobetaine Monoliths and Characterization of Their Interaction with Proteins, *Macromolecules*, 33, 2539-2544, March 11, 2000.	
	CD	WANG B, Abdulali-Kanji Z, Dodwell E, Horton JH, Oleschuk RD, "Surface characterization using chemical force microscopy and the flow performance of modified polydimethylsiloxane for microfluidic device applications," *Electrophoresis*, Volume 24, Issue 9, 2003, p 1442-1450.	
	CE	XIE S, Svec F, Frechet JM.," ""Design of reactive porous polymer supports for high throughput bioreactors: poly(2-vinyl-4,4-dimethylazlactone-co-acrylamide- co-ethylene dimethacrylate) monoliths," *Biotechnol Bioeng.* 1999 Jan 5; 62(1):30-5.	
	CF	YU C., Svec F., Fréchet J.M.J.,"Toward stationary phases for chromatography on a microchip: Molded porous polymer monoliths prepared in capillaries by photoinitiated in situ polymerization as separation media for electrochromatography," *Electrophoresis* 2000, *21*, 120.	
	CG	YU C., Davey M.H., Svec F., Fréchet J.M.J., "Monolithic Porous Polymer for On-Chip Solid-Phase Extraction and Preconcentration Prepared by Photoinitiated in Situ Polymerization within a Microfluidic Device," *Anal. Chem.* 2001, 73, 5088.	
	CH	YU C., Xu M., Svec F., Fréchet J.M.J. "Preparation of monolithic polymers with controlled porous properties for microfluidic chip applications using photoinitiated free-radical polymerization," *J. Polym. Sci., Polym. Chem.* 2002, *40*, 755.	

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